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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 (canceled).

2. (Currently amended) A purified or isolated nucleic acid encoding a secreted soluble calcium channel subunit polypeptide that binds gabapentin said nucleic acid ~~comprising~~ consisting of a polynucleotide sequence encoding:
 - from amino-acid 1 to between amino-acids 1027 and 1062 of SEQ ID NO:20, or
 - from amino-acid 1 to between amino-acids 984 and 1019 of SEQ ID NO:22.
3. (Currently amended) A purified or isolated nucleic acid encoding a secreted soluble calcium channel subunit polypeptide that binds gabapentin wherein the sequence of said nucleic acid sequence encodes:
 - a polypeptide consisting of from amino-acid 1 to between amino-acids 1047 and 1062 of SEQ ID NO:20, or
 - from amino-acid 1 to between amino-acids 1004 and 1019 of SEQ ID NO:22.
4. (Currently amended) A purified or isolated nucleotide sequence encoding a secreted soluble calcium channel subunit polypeptide wherein said sequence ~~is~~ consists of the sequence of SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:13, SEQ ID NO:14, or SEQ ID NO:15.

Claims 5-9 (canceled).

10. (Previously presented) A recombinant vector comprising a nucleic acid according to claim 2.
11. (Previously presented) A recombinant host cell comprising a nucleic acid according to claim 2.

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12. (Previously presented) A method for producing a secreted soluble calcium channel subunit polypeptide, said method comprises the steps of:
- (a) inserting the nucleic acid according to claim 2 in an appropriate vector;
 - (b) culturing, in an appropriate culture medium, a host cell previously transformed or transfected with the recombinant vector of step (a);
 - (c) harvesting the culture medium thus obtained or lyse the host cell, for example by sonication or osmotic shock;
 - (d) separating or purifying, from said culture medium, or from the pellet of the resultant host cell lysate, the thus produced calcium channel subunit polypeptide of interest.

Claims 13-25 (canceled).

26. (New) The nucleic acid of claim 2, said nucleic acid consisting of a polynucleotide sequence encoding a polypeptide from amino-acid 1 to between amino-acids 1027 and 1062 of SEQ ID NO:20.
27. (New) The nucleic acid of claim 2, said nucleic acid consisting of a polynucleotide sequence encoding a polypeptide from amino-acid 1 to between amino-acids 984 and 1019 of SEQ ID NO:22.
28. (New) The nucleic acid of claim 3, wherein said nucleic acid sequence encodes a polypeptide consisting of from amino-acid 1 to between amino-acids 1047 and 1062 of SEQ ID NO:20.
29. (New) The nucleic acid of claim 3, wherein said nucleic acid sequence encodes a polypeptide consisting of from amino-acid 1 to between amino-acids 1004 and 1019 of SEQ ID NO:22.

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30. (New) The nucleotide sequence of claim 4, wherein said sequence consists of the sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3.

31. (New) The nucleotide sequence of claim 4, wherein said sequence consists of the sequence of SEQ ID NO:7, SEQ ID NO:8, or SEQ ID NO:9.

32. (New) The nucleotide sequence of claim 4, wherein said sequence consists of the sequence of SEQ ID NO:13, SEQ ID NO:14, or SEQ ID NO:15.

33. (New) A purified or isolated nucleic acid consisting of a nucleic acid that encodes a polypeptide tag fused to a calcium channel subunit polypeptide consisting of:

- from amino-acid 1 to between amino-acids 1027 and 1062 of SEQ ID NO:20, or
- from amino-acid 1 to between amino-acids 984 and 1019 of SEQ ID NO:22.

34. (New) The purified or isolated nucleic acid of claim 33, wherein said calcium channel subunit is a polypeptide from amino-acid 1 to between amino-acids 1027 and 1062 of SEQ ID NO:20.

35. (New) The purified or isolated nucleic acid of claim 33, wherein said calcium channel subunit is a polypeptide from amino-acid 1 to between amino-acids 984 and 1019 of SEQ ID NO:22.

36. (New) A purified or isolated nucleic acid consisting of a nucleic acid that encodes a polypeptide tag fused to a calcium channel subunit polypeptide consisting of from amino-acid 1 to between amino-acids 1047 and 1062 of SEQ ID NO:20, or

- from amino-acid 1 to between amino-acids 1004 and 1019 of SEQ ID NO:22.

37. (New) The purified or isolated nucleic acid of claim 36, wherein said calcium channel subunit polypeptide consists of from amino-acid 1 to between amino-acids 1047 and 1062 of SEQ ID NO:20.

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38. (New) The purified or isolated nucleic acid of claim 36, wherein said calcium channel subunit polypeptide consists of from amino-acid 1 to between amino-acids 1004 and 1019 of SEQ ID NO:22.

39. (New) A purified or isolated nucleotide sequence consisting of a nucleic acid that encodes a polypeptide tag fused to a nucleic acid encoding a calcium channel subunit polypeptide selected from the group consisting of the nucleic acid sequences of SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:13, SEQ ID NO:14, and SEQ ID NO:15.

40. (New) The nucleic acid of claim 38, wherein said nucleic acid encoding a calcium channel subunit polypeptide is selected from the group consisting of the sequence of SEQ ID NO:1, SEQ ID NO:2, and SEQ ID NO:3.

41. (New) The nucleic acid of claim 38, wherein said nucleic acid encoding a calcium channel subunit polypeptide is selected from the group consisting of the sequence of SEQ ID NO:7, SEQ ID NO:8, and SEQ ID NO:9.

42. (New) The nucleic acid of claim 38, wherein said nucleic acid encoding a calcium channel subunit polypeptide is selected from the group consisting of the sequence of SEQ ID NO:13, SEQ ID NO:14, and SEQ ID NO:15.